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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,112	08/18/2006	Toshihiro Horiuchi	129155	2824
25944 7590 04/02/2008 OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850			EXAMINER TSIDULKO, MARK	
			ART UNIT 2875	PAPER NUMBER
			MAIL DATE 04/02/2008	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/590,112	<b>Applicant(s)</b> HORIUCHI ET AL.	
	<b>Examiner</b> MARK TSIDULKO	<b>Art Unit</b> 2875	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

1) ☒ Responsive to communication(s) filed on 18 August 2006.

2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

4) ☒ Claim(s) 1-5 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.

6) ☒ Claim(s) 1-5 is/are rejected.

7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.

8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

9) ☐ The specification is objected to by the Examiner.

10) ☒ The drawing(s) filed on 18 August 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☒ All    b) ☐ Some \*    c) ☐ None of:

1. ☒ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>081806</u> .	6) <input type="checkbox"/> Other: _____

## **DETAILED ACTION**

### ***Claim Objections***

Claim 3 is objected to because of the following informalities: the phrase “prim array” in line 2 should be changed to the phrase -prism array-.

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayashi et al. (US 2005/0174803).

Hayashi et al. disclose (Fig.25) a surface light source including a light conductive plate [4] having a side surface as a light entrance surface, a first major surface as a light exit surface (surface facing to deflector [6]), a second major surface opposite to the first major surface, a plurality of point light sources (LEDs) [2] disposed at the light entrance surface of the light guide [4] and a light reflecting sheet [10] disposed at two major surfaces, covering a plurality of LEDs [2] and a portion of the light guide [4], and having a light diffusing property (page 16, [0158]).

While Hayashi et al. do not disclose a plurality of diffusing portions, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a

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plurality of light diffusing portions on the reflecting sheet of the device of Hayashi et al., in order to obtain uniform light distribution, since it has been held that mere duplication of essential working parts of a device involves only routine skill in the art. *St. Regis Paper Co. v. Bemis Co.*, 193 USPQ 8.

Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayashi et al. (US 2005/0174803) in view of Lee (US 6,164,790).

Hayashi et al. disclose the instant claimed invention except for a prismatic structure of the diffuser.

Lee discloses (Fig.10A, 14A) a backlight unit for LCD having a diffusing sheet [140] (Fig.10A) with an array of prisms extended orthogonally to the light incident side of the light guide (Fig.14A). One having ordinary skill in the art would have recognized that providing the apexes of the prisms point toward the first major surface of the light guide plate allows increase spreading the light emitted from the LEDs into the light guide plate.

It would have been obvious to one having ordinary skill in the art, at the time the invention was made, to provide the diffusing reflector of the device of Hayashi et al. having a plurality of prisms, as taught by Lee, in order to obtain uniform light distribution. Further, it would have been obvious to one having ordinary skill in the art, at the time the invention was made, to provide apexes of the prisms on the light reflecting sheet of the device of Hayashi et al., point toward the first major surface of the light guide plate on order to increase spreading the light emitted from the LEDs into the light guide plate.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Tsidulko whose telephone number is (571) 272-2384. The examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300 for all communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Sandra L. O'Shea/  
Supervisory Patent Examiner, Art Unit  
2875

M.T.  
March 27, 2008

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